



STra
Solano Transportation Authority



STATE ROUTE 37/ FAIRGROUNDS DRIVE

Interchange Improvements Project

Project Setting



Gateway to
City of Vallejo



Gateway to Six
Flags Discovery
Kingdom



Serves
Commuters
to/from Napa

State Route 37/Fairgrounds Drive
Interchange Improvements Project



Solano 360 Development

112-acre Redevelopment

Public Entertainment, Mixed-Use
Development, Transit, & Parking

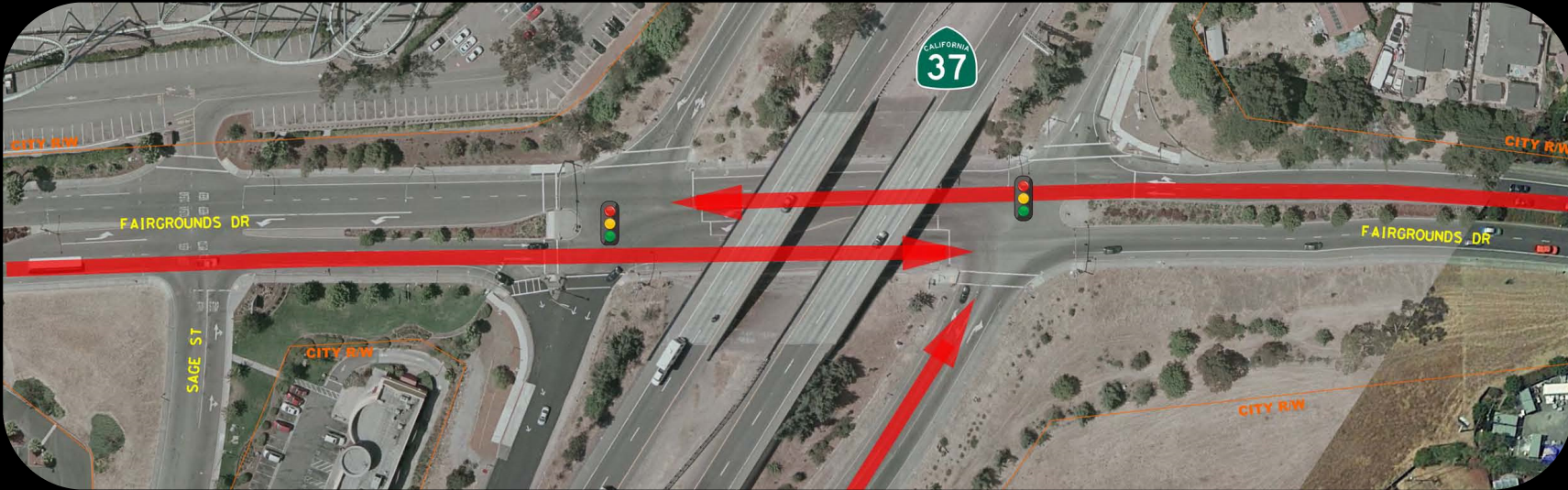
Will add 1,000 PM peak-hour trips to
SR 37/Fairgrounds Interchange



State Route 37/Fairgrounds Drive
Interchange Improvements Project



Future Conditions (Intersection)

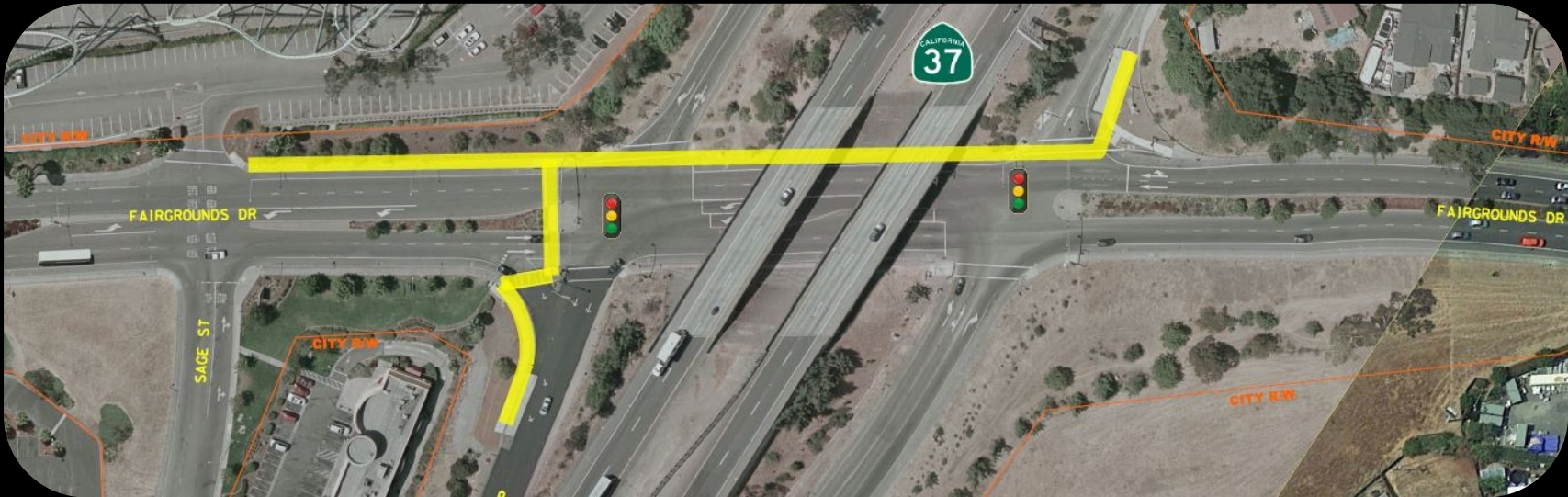


Future Projections
intersection Blockage

Queues Stretch back to
Freeway

Accident Rate Exceeds
Statewide Average

Existing Conditions (Pedestrians)



Pedestrian Traverse
through interchange

Yield-Only Crossings

No Safe Crossings of
Fairgrounds south of Sage

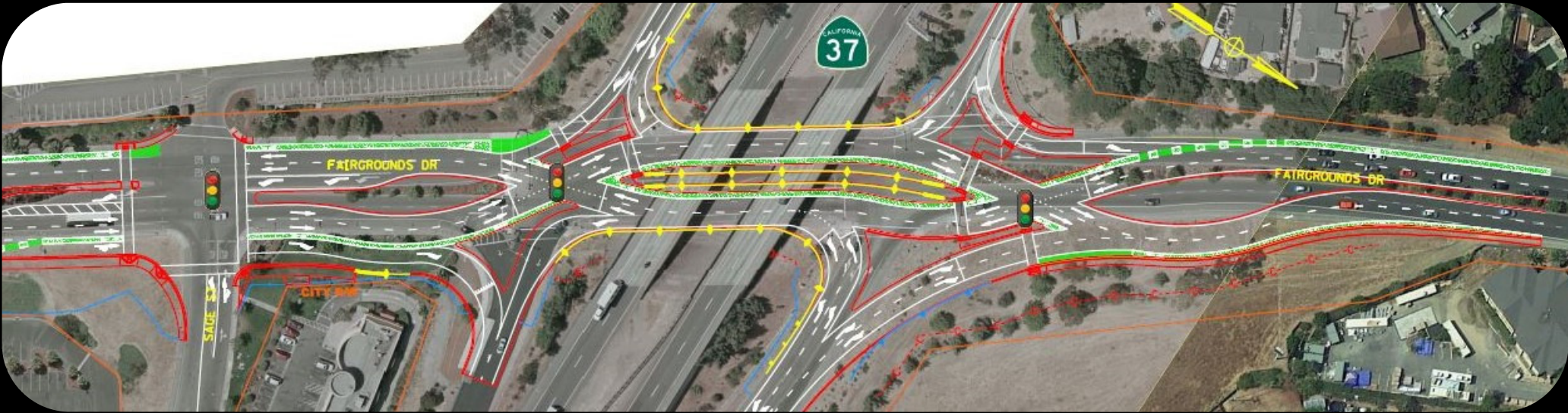
Project Improvements (South of Sage Street)



Widen Fairgrounds
Drive Eastward to add
3rd NB Lane

Modify Traffic Signal at N.
Six Flags Exit Intersection

Project Improvements (Interchange Area)



Add Traffic Signal at Sage
Intersection

Adopt a Diverging
Diamond Interchange
Configuration

State Route 37/Fairgrounds Drive
Interchange Improvements Project



Diverging Diamond (DDI) Overview



- ✓ 100+ in United States (1 in California)
- ✓ Increases Safety for all modes
- ✓ Eases Traffic Congestion
- ✓ Less Expensive than Interchange Reconstruction

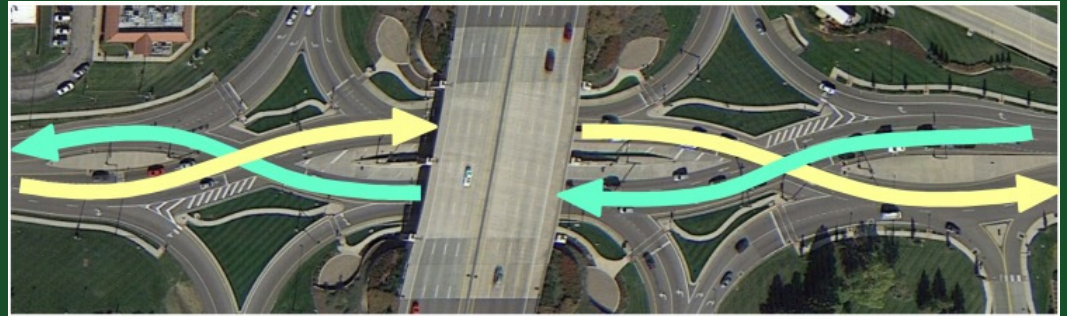
Diverging Diamond Vehicle Movements

Street Movements Cross Over
to Left Side (Signal Controlled)

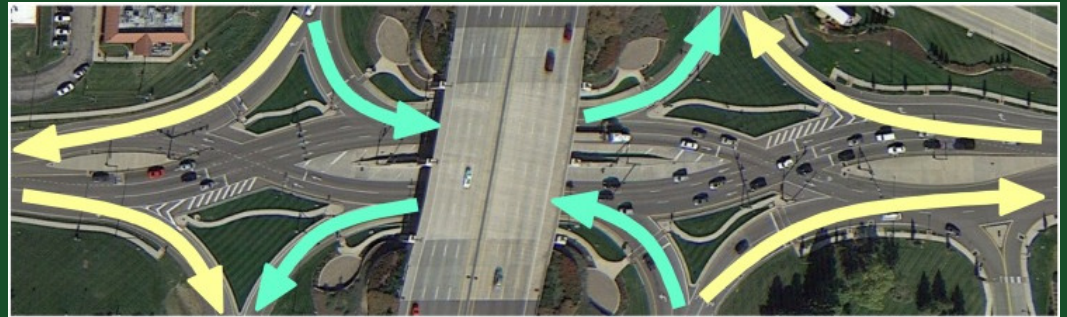
Free Left turns onto On-ramps
(Doubles Capacity)

Yielding Right Turns to On-ramps

Off-ramp turns are signaled

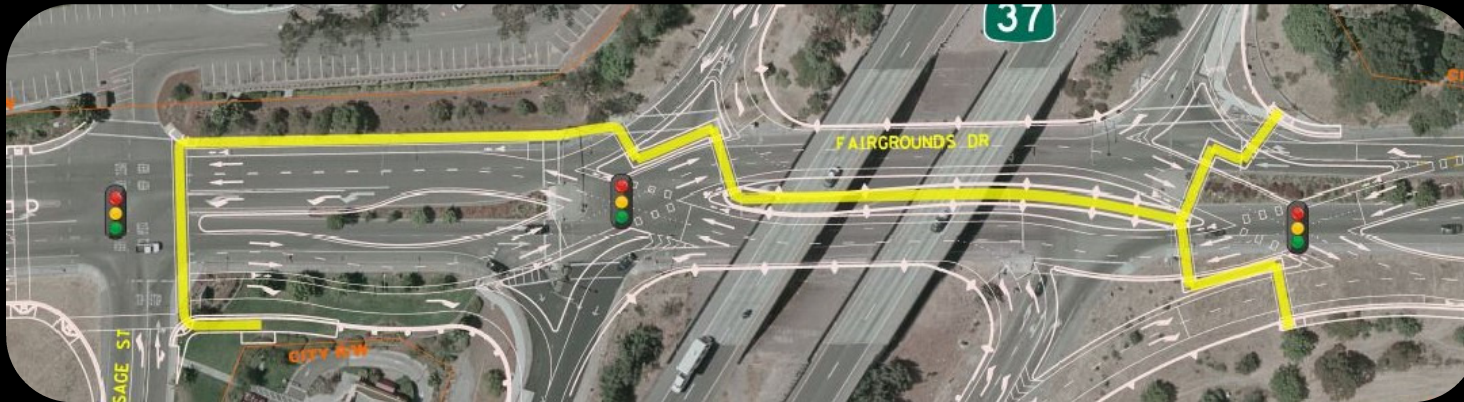


(a) Through Crossroad Traffic at the DDI



(b) Left and Right Turning Movement at a DDI

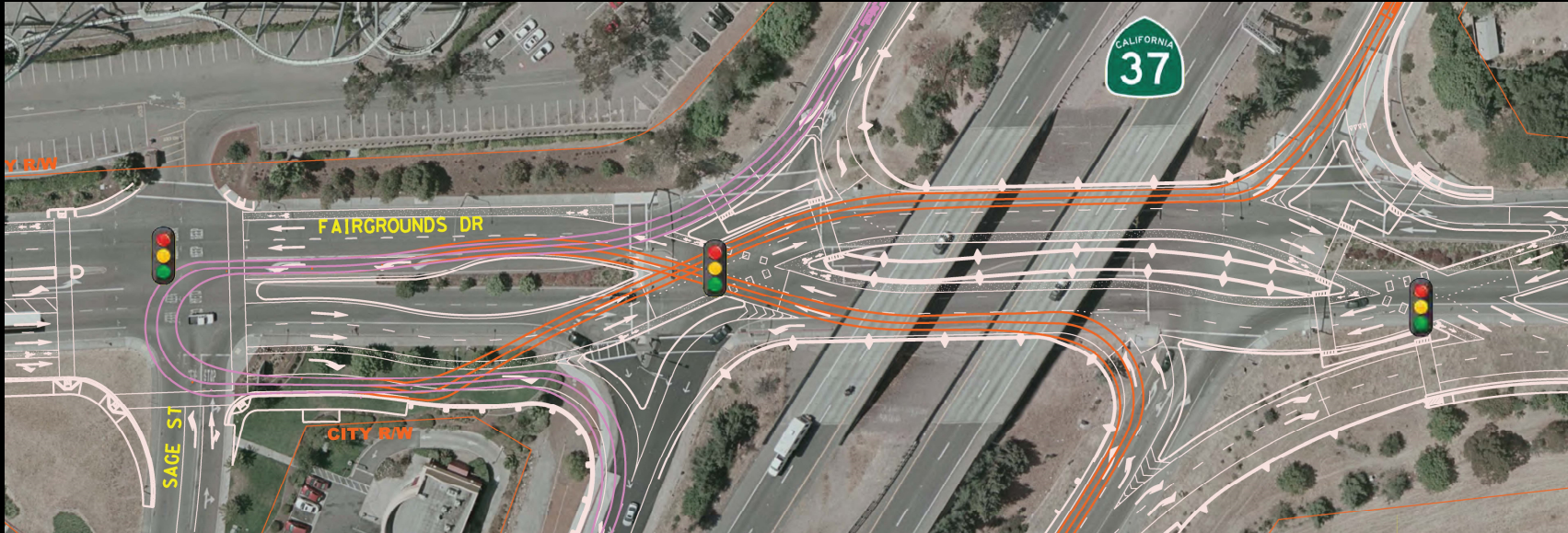
Diverging Diamond Pedestrian Movements



Pedestrians

- ✓ Shorter Crosswalks
- ✓ Signal Controlled Crosswalks
- ✓ Barrier-Protected Walkway in Median

Diverging Diamond Bus Movements



Install GTT GPS Pre-emption Systems at Ramp Intersections

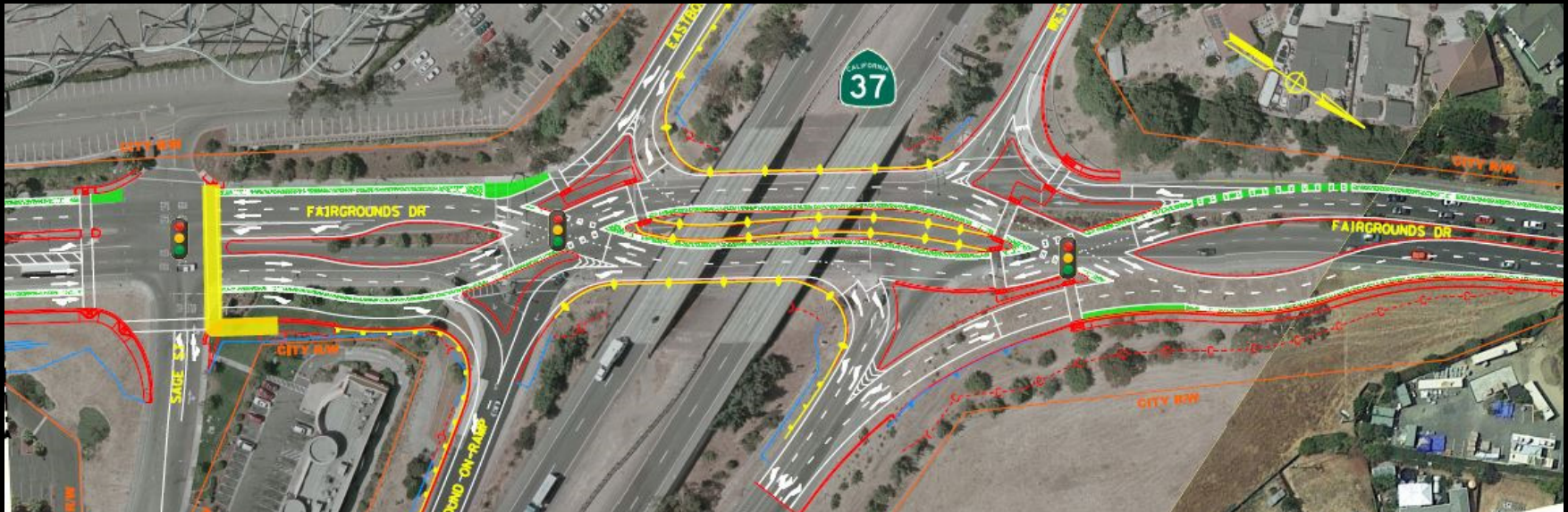
Install Emitter on Each Bus

Bus Turns on Emitter at Stop

State Route 37/Fairgrounds Drive
Interchange Improvements Project



Diverging Diamond Bus Movements



Consolidates
Bus Stops



Shortens Walking
Distance to Six Flags

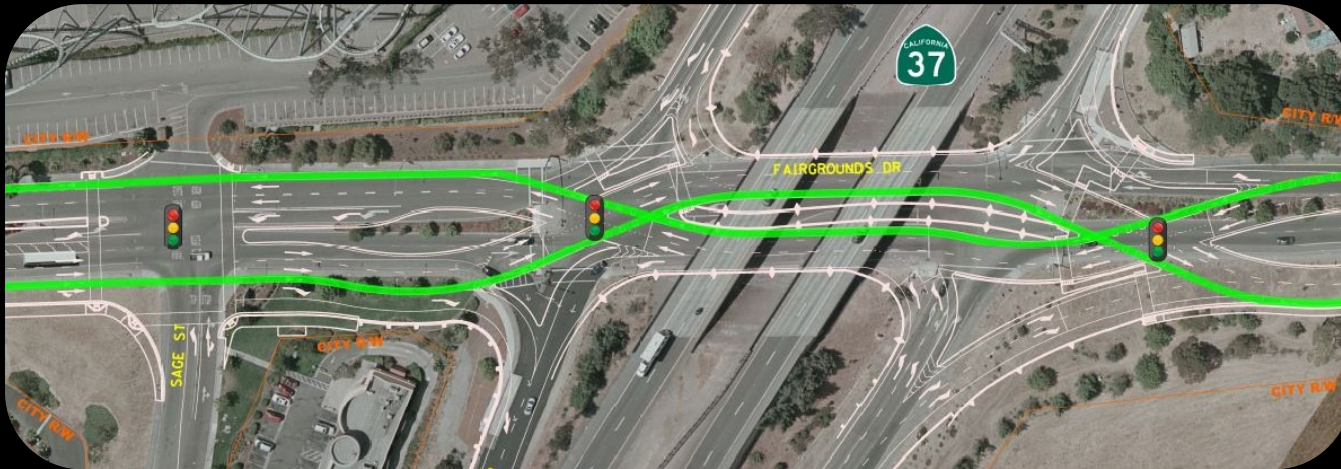


Negligible Travel Time
Increase (< 2 minutes)

State Route 37/Fairgrounds Drive
Interchange Improvements Project



Diverging Diamond Bicycle Movements

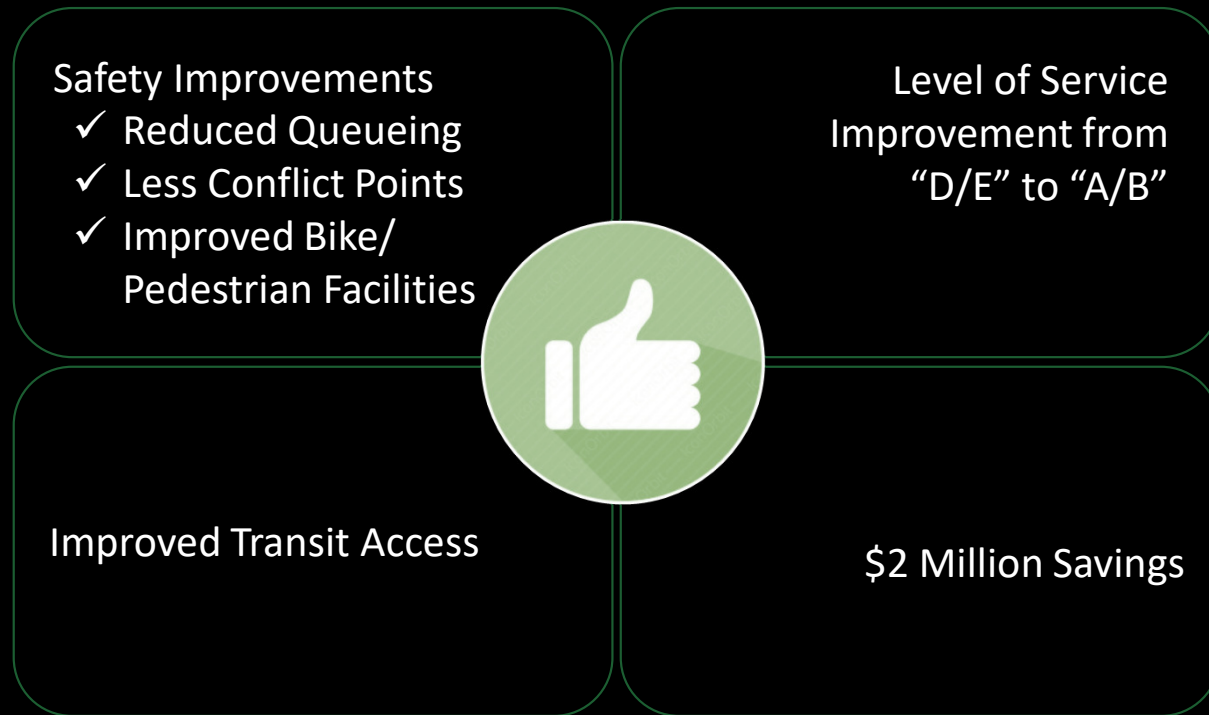


Continuous Class II
Bicycle Facilities

State Route 37/Fairgrounds Drive
Interchange Improvements Project



Project DDI Benefits



Project Construction Costs

Category	Construction Cost
Roadway Construction	\$19,900,000
Landscaping/Aesthetics	\$1,100,000
Right of Way*	\$200,000
Total Construction**	\$21,200,000

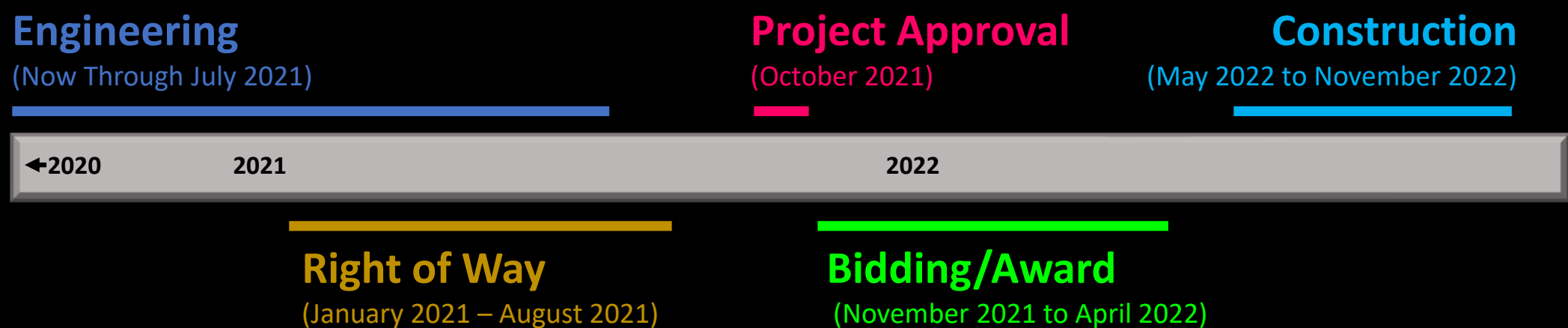
Construction Management	\$3,000,000
Total Project Cost***	\$24,200,000

*Right of Way Costs involve Staging Area and County Dedications

** 2022 Dollars. Increases \$1 Million Annually every year after 2022

*** Available Funding : RM3 - \$15M; STIP - \$5M; \$4.2 M shortfall

Project Schedule



We Welcome Your Questions.